

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P243824

Luminaire Tested: **LSR8B20D010 EC8B20850 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P243824
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27941)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B20D010 EC8B20850 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2341.0 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.17
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

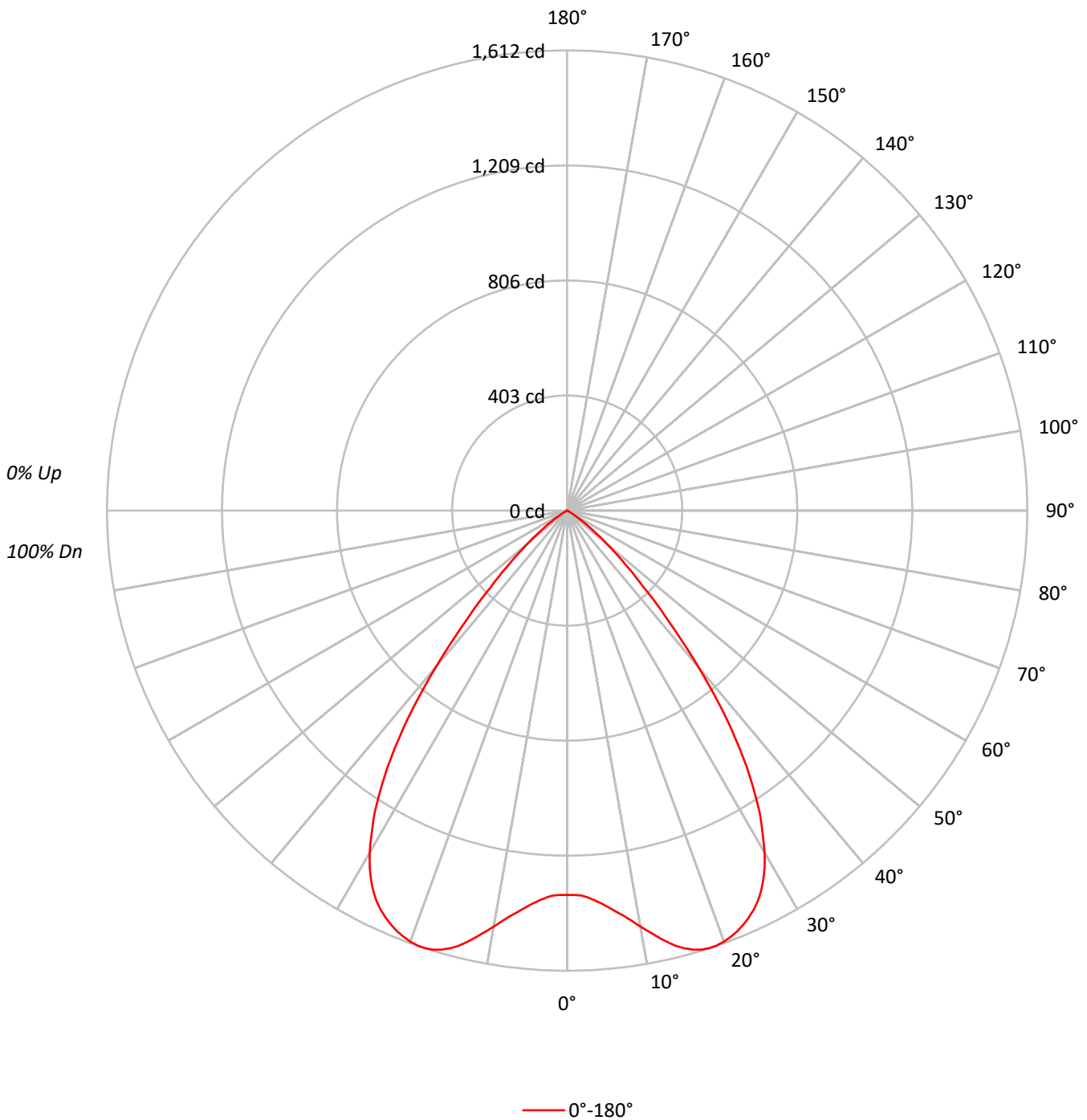
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	110	107	105	110	108	105	103	104	102	100		100	98	97		96	95	94	92
2	106	101	97	93	104	99	95	92	96	93	90		93	90	88		90	88	86	84
3	100	93	87	83	98	92	86	82	89	85	81		86	83	80		84	81	78	77
4	94	86	79	75	92	84	79	74	82	77	73		80	76	72		78	75	72	70
5	88	79	72	68	87	78	72	67	76	71	67		74	70	66		73	69	65	64
6	83	73	66	62	82	72	66	61	71	65	61		69	64	60		68	63	60	58
7	78	68	61	56	77	67	61	56	66	60	56		64	59	55		63	59	55	54
8	74	63	56	52	72	62	56	52	61	55	51		60	55	51		59	54	51	49
9	70	59	52	48	68	58	52	47	57	51	47		56	51	47		55	50	47	45
10	66	55	48	44	65	54	48	44	53	48	44		53	47	44		52	47	43	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	41533
5°	42763
10°	46326
15°	50689
20°	52734
25°	52540
30°	49283
35°	41326
40°	28774
45°	16480
50°	8851
55°	3650
60°	907
65°	233
70°	117
75°	71
80°	107
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.1	5.8
10°-20°	447.5	19.1
20°-30°	704.1	30.1
30°-40°	669.8	28.6
40°-50°	308.8	13.2
50°-60°	70.1	3.0
60°-70°	4.6	0.2
70°-80°	0.9	0.0
80°-90°	0.1	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1286.7	55.0
0°-40°	1956.4	83.6
0°-60°	2335.4	99.8
0°-90°	2341.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2341.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1347	
5°	1382	135
15°	1588	448
25°	1544	704
35°	1098	670
45°	378	309
55°	68	70
65°	3	5
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1346.9
1°	1346.3
2°	1348.9
3°	1356.5
4°	1368.1
5°	1381.5
6°	1398.2
7°	1416.1
8°	1434.7
9°	1456.5
10°	1479.5
11°	1502.6
12°	1526.9
13°	1550.0
14°	1571.1
15°	1587.8
16°	1599.9
17°	1608.3
18°	1612.1
19°	1611.5
20°	1607.0
21°	1599.3
22°	1589.7
23°	1576.9
24°	1562.1
25°	1544.2
26°	1523.1
27°	1496.2
28°	1464.1
29°	1427.0
30°	1384.1
32.5°	1255.3
35°	1097.8
37.5°	914.6
40°	714.8
42.5°	528.4
45°	377.9
47.5°	267.7
50°	184.5
52.5°	117.8
55°	67.9
57.5°	33.9
60°	14.7
62.5°	5.8
65°	3.2



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	1.9
70°	1.3
72.5°	1.3
75°	0.6
77.5°	0.6
80°	0.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)